

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
27 January 2005 (27.01.2005)

PCT

(10) International Publication Number  
**WO 2005/007654 A1**

(51) International Patent Classification<sup>7</sup>: C07D 471/04.  
437/04, C07K 7/52, A61K 38/04

Marcello [IT/IT]: c/o Dipartimento di Chimica Industriale,  
Via Venezian 21, I-20133 Milan (IT).

(21) International Application Number:  
PCT/IB2004/002204

(74) Agent: TRUPIANO, Federica; Marietti, Gilson e Trupiano S.r.l., Via Larga, 16, I-20122 Milan (IT).

(22) International Filing Date: 5 July 2004 (05.07.2004)

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: Italian

(26) Publication Language: English

(30) Priority Data:  
MI2003A001476 18 July 2003 (18.07.2003) IT

(71) Applicant (for all designated States except US): UNIVERSITA' DEGLI STUDI DI MILANO [IT/IT]: Via Festa del Perdono, 7, I-20122 Milan (IT).

(72) Inventors: and

(75) Inventors/Applicants (for US only): SCOLASTICO, Carlo [IT/IT]: c/o DIPARTIMENTO DI CHIMICA ORGANICA ED INDUSTRIAL, E, Via Venezian 21, I-20133 Milan (IT). COLOMBO, Lino, FRANCESCO [IT/IT]; c/o UNIVERSITA' DEGLI STUDI DI PAVIA, Dipartimento di Chimica Farmaceutica, Via Taramelli 12, I-27100 Pavia (IT). MANZONI, Leonardo, Pierpaolo [IT/IT]; c/o Consiglio Nazionale delle Ricerche, Istituto di Scienze e Tecnologie Molecolari (ISTM), Via Venezian 21, I-20133 Milan (IT). COLOMBO, Matteo, Giuseppe [IT/IT]; c/o Dipartimento di Chimica Organica ed Industrial, e, Via Venezian 21, I-20133 Milan (IT). DI GIACOMO,

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

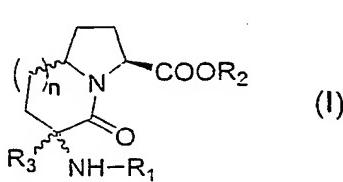
Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/007654 A1

(54) Title: PEPTIDO-MIMETIC COMPOUNDS CONTAINING RGD SEQUENCE USEFUL AS INTEGRIN INHIBITORS: AND INTERMEDIATES THEREOF



(57) Abstract: The subject of the present invention are cyclic compounds, in particular having azabicycloalkane structures of general formula (I) a process for their preparation, and their use as intermediates in the synthesis of biologically active peptidomimetic compounds containing the sequence RGD (Arg-Gly-Asp).